

A

BAIT	PREY	25°C		37°C	
		Glu	Gal	Glu	Gal
Ras	clone 72	•	•	•	•
Ras	clone 61	•	•	•	•
Ras	lamin C	•	•	•	•
Ras-RANKcd	clone 72	•	•	•	•
Ras-RANKcd	clone 61	•	•	•	•
Ras-RANKcd	lamin C	•	•	•	•
none	clone 72	•	•	•	•
none	clone 61	•	•	•	•
none	lamin C	•	•	•	•

B

hRAIN: 1 MSGCDAGEGDCSRRCQAQDKEHPRLIPELCKQFYHLGWVTGTGGGSLKHGDEIYIAP 60
 mRAIN: 1 MSGCQA-QGDCCSRPCQAQDKEHPRLIPELCKQFYHLGWVTGTGGGSLKHGNEIYIAP 59

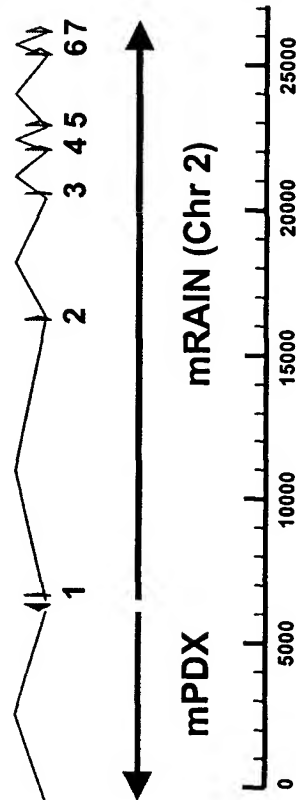
hRAIN: 61 SGVQKERIQPEDMFVCDINEKDISGSPSKLKKSOCTPLFMNAVYTMRGAGAVIHTHKA 120
 mRAIN: 60 SGVQKERIQPEDMFVCDINEQDISGPPASKLKKSOCTPLFMNAVYTMRGAGAVIHTHKA 119

hRAIN: 121 AVMATLLFPGRFEKITHQEMIKGKKCTSGGYRYDDMLVVP I IENTPEEKGLKDRMAHA 180
 mRAIN: 120 AVMATLLFPGQEFKITHQEMIKGIRKCTSGGYRYDDMLVVP I IENTPEEKDLKERMAHA 179

hRAIN: 181 MNEYPDSCAVLVRRHGVVWGCTWEKATMCECYDYLFDAVSMKKVGLDPSQLPVGENG 240
 mRAIN: 180 MNEYPDSCAVLVRRHGVVWGCTWEKATMCECYDYLFDAVSMKKMGLDPTQLPVGENG 239

hRAIN: 241 IV
 mRAIN: 240 IV

C



D

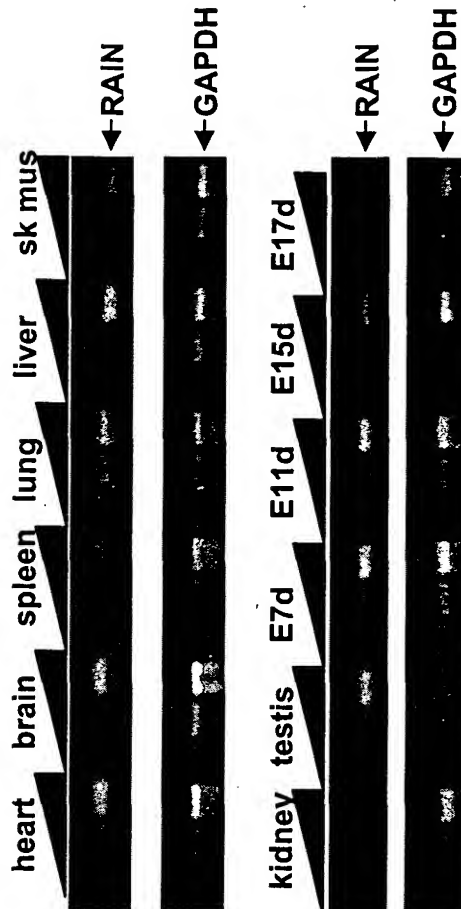


FIG. 1A-D

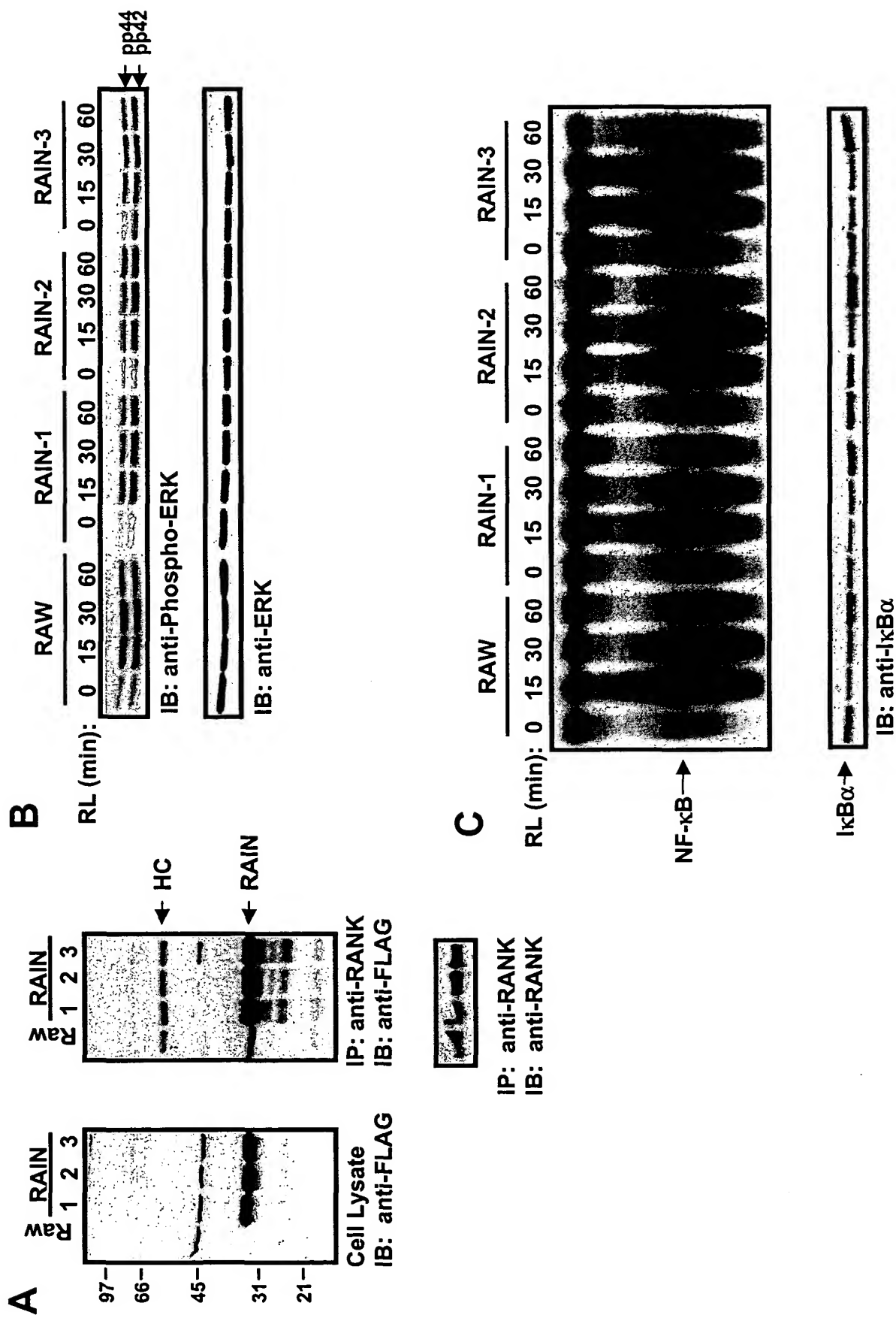


FIG. 2A-C

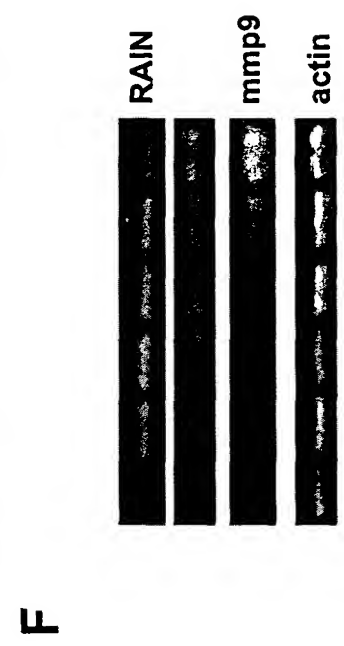
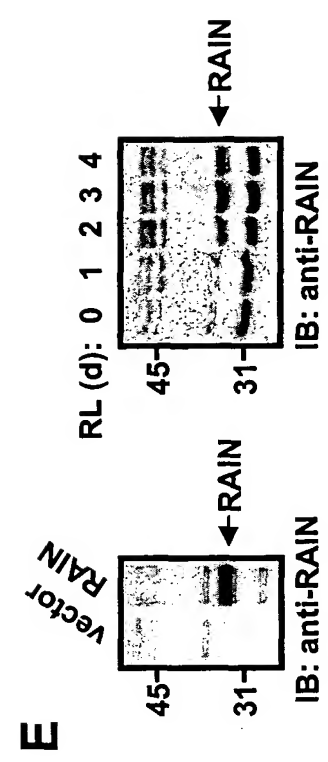
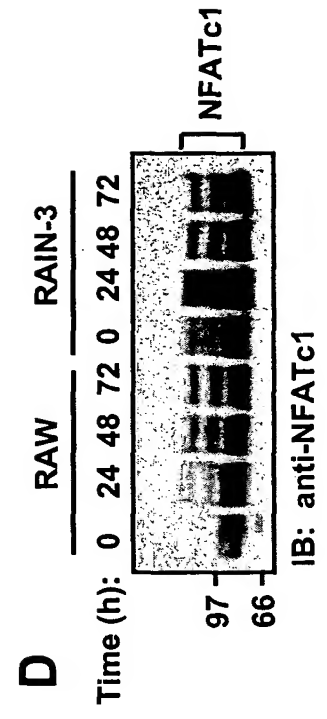
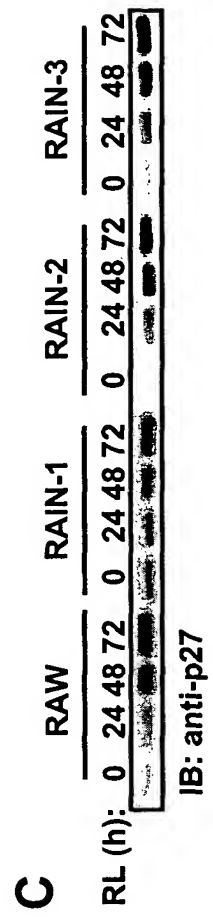
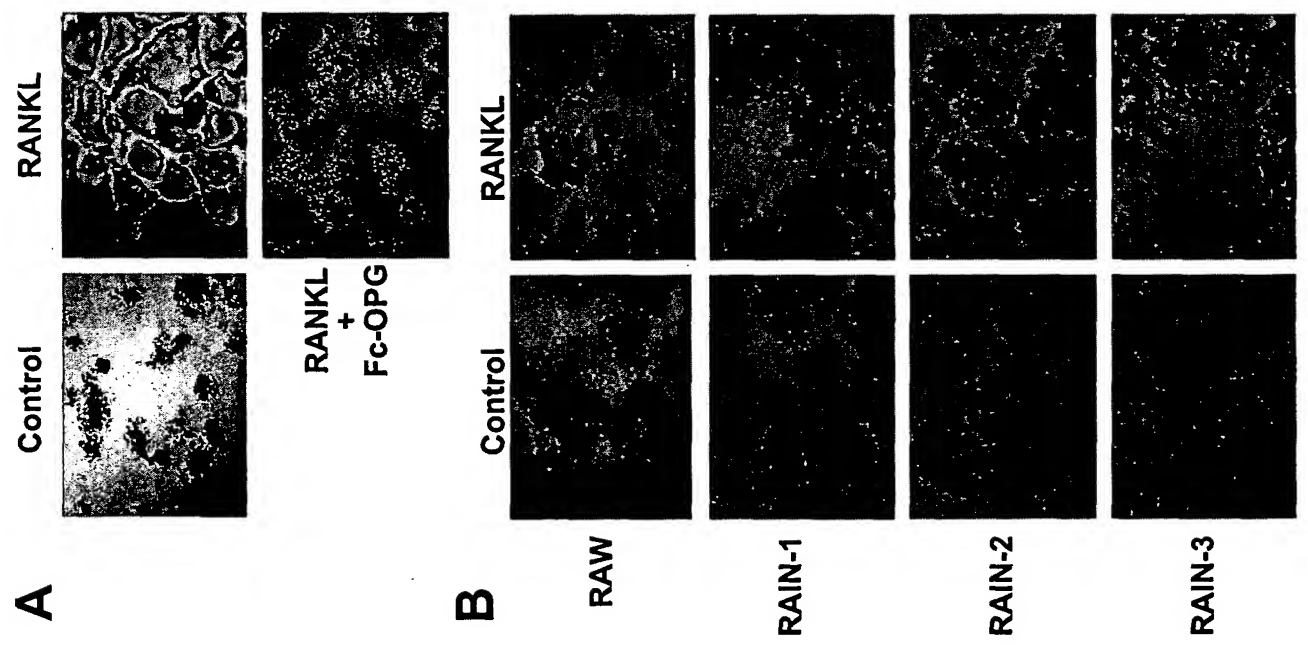


FIG. 3A-F

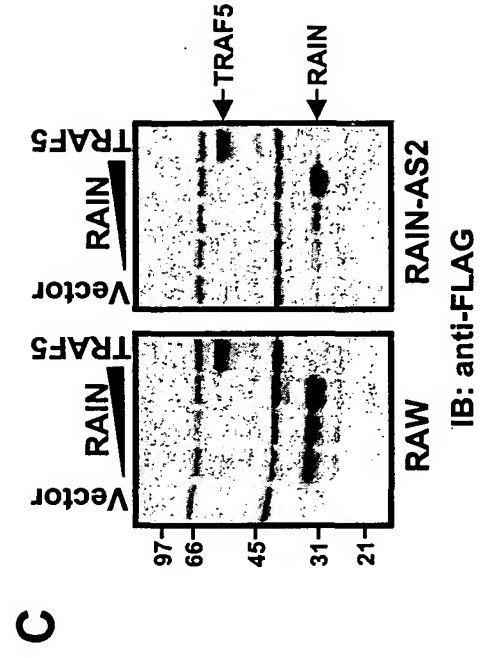
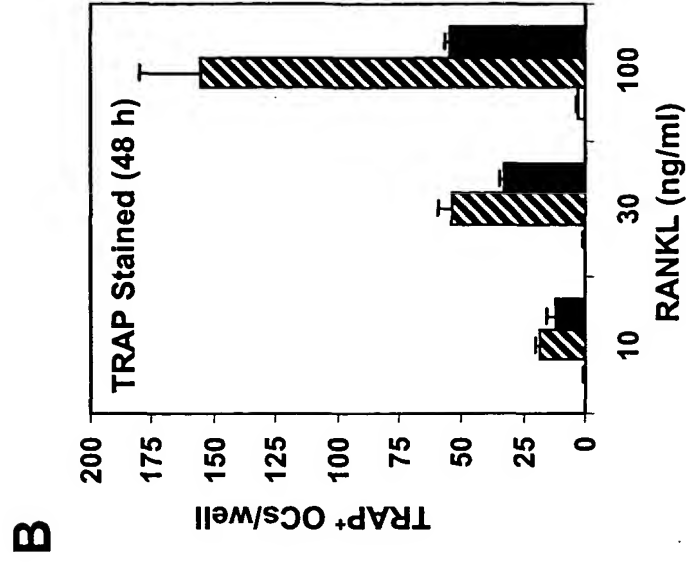
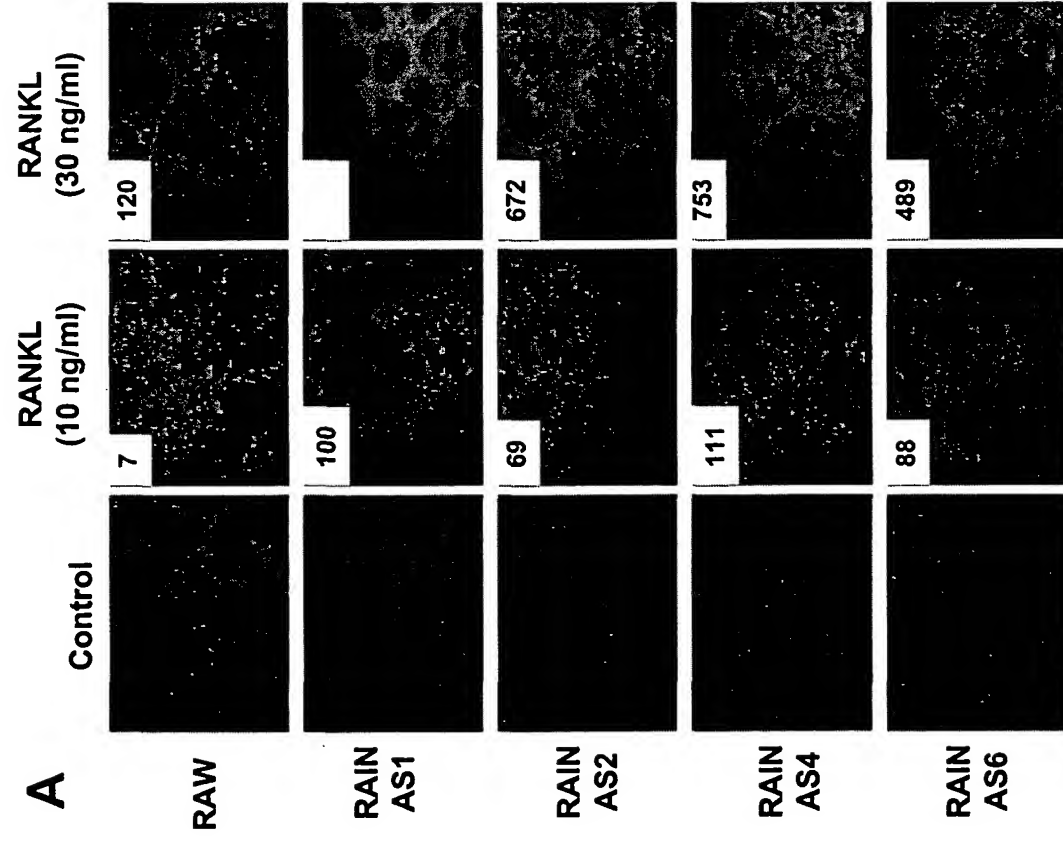


FIG. 4A-C

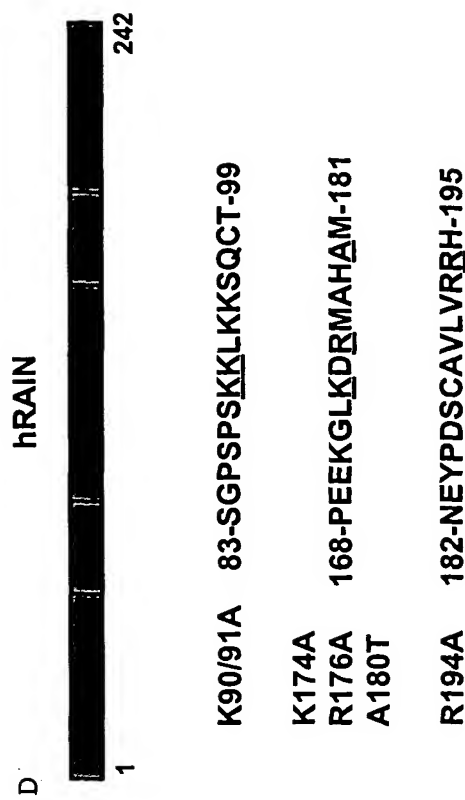
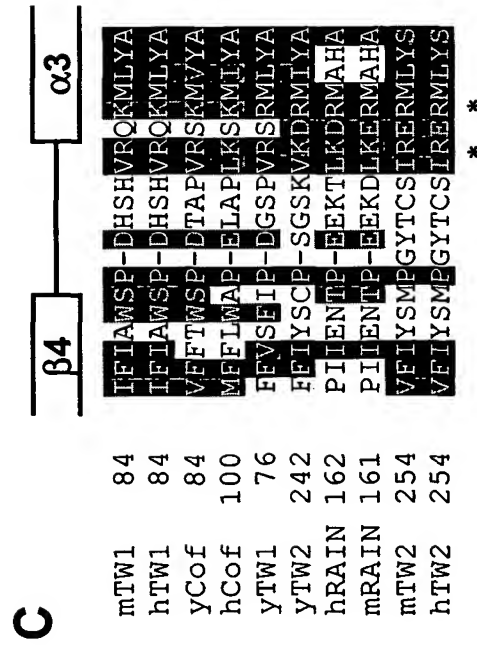
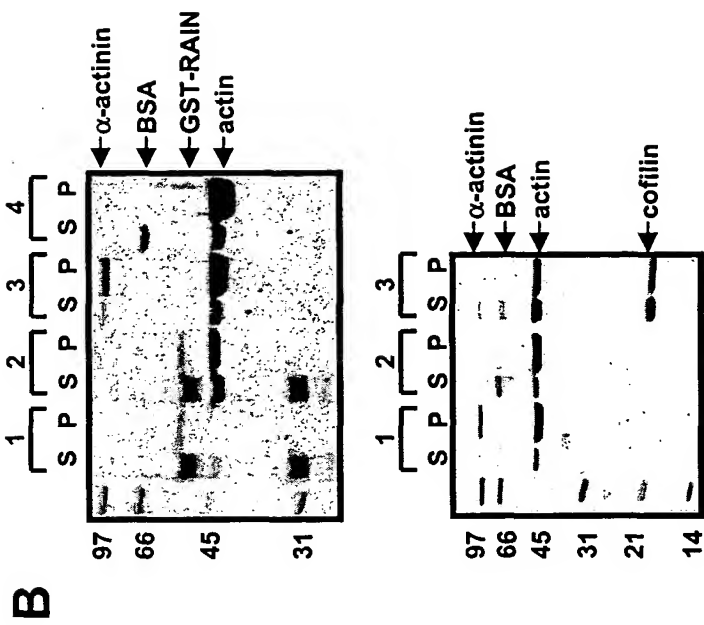
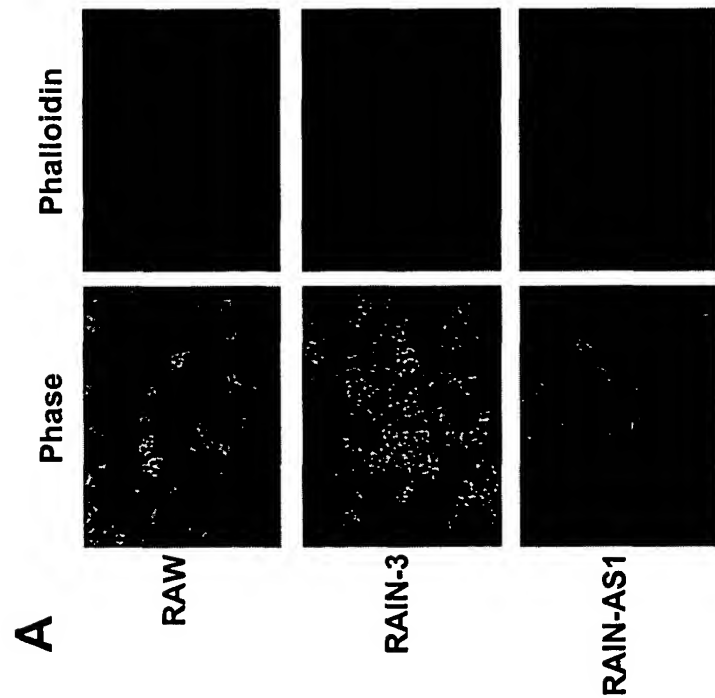


FIG. 5A-D

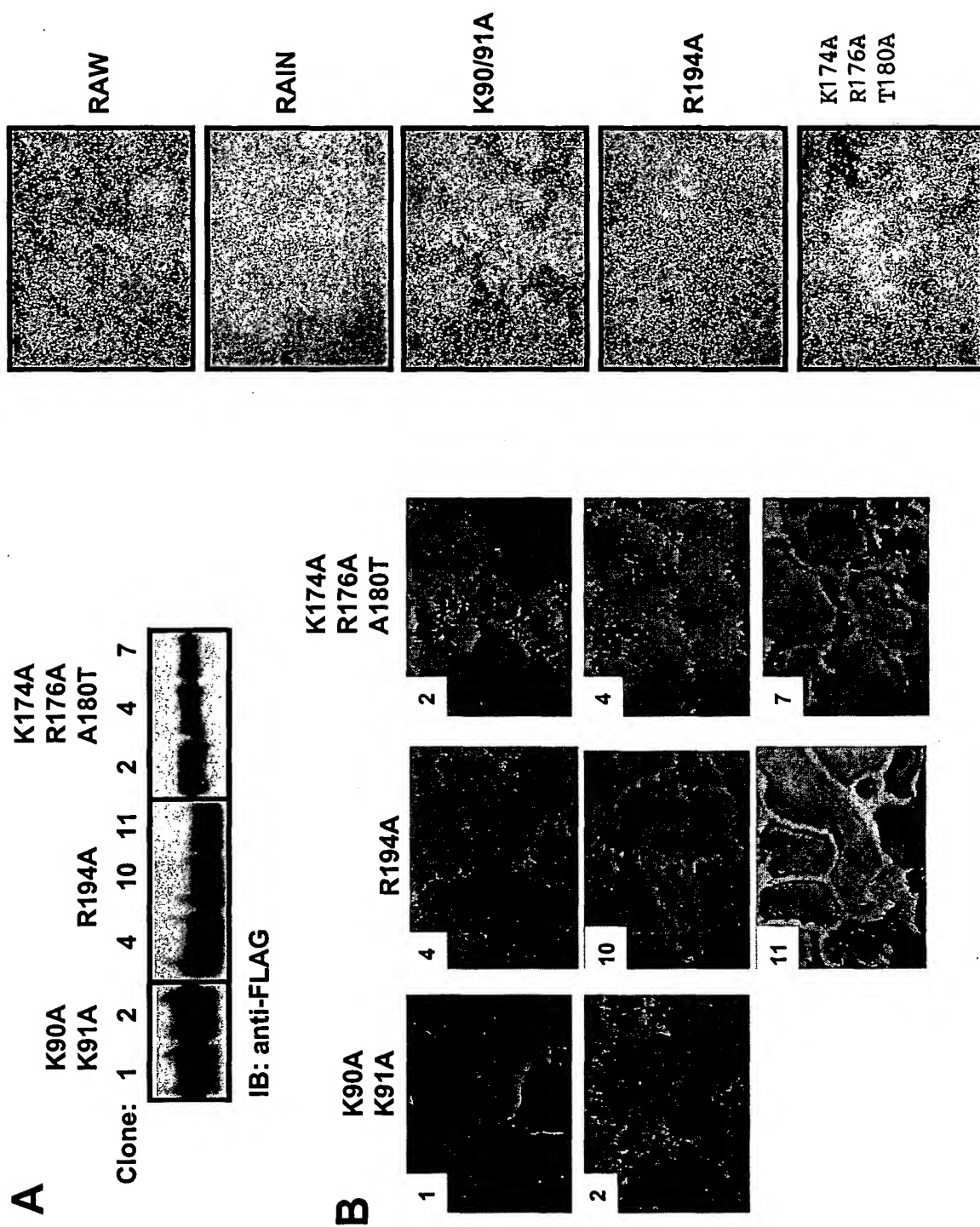


FIG. 6A-C

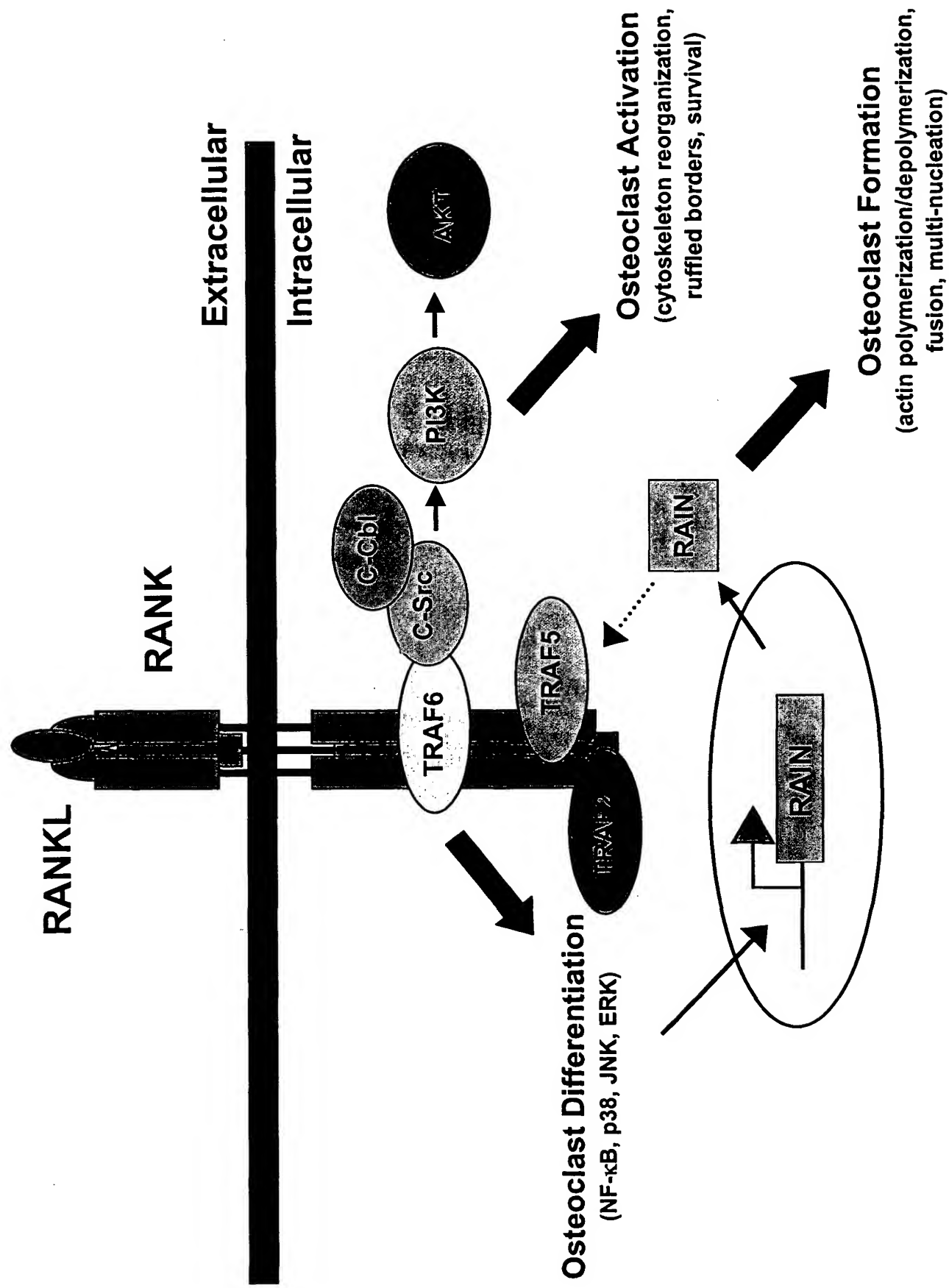


FIG. 7

1 atgtctggctgtcaagctcaaggagactgtctgtctggcgcgcgtgtggcgcgcagacaag 60
mmr19: 1 atgtctggctgtcaagctcaaggagactgtctgtctggcgcgcgtgtggcgcgcagacaag 60

61 gagcaccccgattctctgattcccgagactttgcacacagttttaccatctgggtc 120
mmr19: 61 gagcaccccgattctctgattcccgagactttgcacacagttttaccatctgggtc 120

T

121 accggtcaactggaggggaactcagcttgaagcattggcgaatgaactctacatctgtc 180
mmr19: 121 accggtcaactggaggggaactcagcttgaagcattggcgaatgaactctacatctgtc 180

122 actggcaactggaggggaactcagcttgaagcattggcgaatgaactctacatctgtc 180
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R

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mmr19: 481 cctattattgagacactcctgagagagaggtacctcaagaagagatggctcatgacctatg 540

N

541 aacgagaccacagactcctgtcggtttcttgtccgggctcatgggtgtacgttgaggga 600
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601 gaacatctgggagagacacaaacatgtctgagtgcttatgactctgttgacattgct 660
mmr19: 601 gaacatctgggagagacacaaacatgtctgagtgcttatgactctgttgacattgct 660

661 gtctccatgaagagagatgggaactcgatccacacagctccagctggagaaatggaa 720
mmr19: 661 gtctccatgaagagagatgggaactcgatccacacagctccagctggagaaatggaa 720

721 gtgtca 726
mmr19: 721 gtgtca 726

hRAIN:	1	atgctcgtctcgtatgctggtgagggagggagctgctggtcccgagagatgagcgcgagcgagac	60
COI-29:	1	atgctcgtgctgctgctgctggtgagggagggagctgctggtcccgagagatgagcgcgagcgac	60
hRAIN:	61	aaggagcatccaaagatacctgagatccacgaactttgcacaaagctttaccattctaggtcgg	120
COI-29:	61	aaggagcatccaaagatacctgagatccacgaactttgcacaaagctttaccattctaggtcgg	120
hRAIN:	121	gtccactgggactggagggaggaattagcttgaggaatctggcgatgaaattctacattgctcct	180
COI-29:	121	gtccactgggactggagggaggaattagcttgaggaatctggcgatgaaattctacattgctcct	180
hRAIN:	181	tcaggagtcgcaaaaggaaacgaattcagcctcgagacatcttctgtctgatacaaatgaa	240
COI-29:	181	tcaggagtcgcaaaaggaaacgaattcagcctcgagacatcttctgtctgatacaaatgaa	240
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COI-29:	241	aaggacataaagtggagccttcgcgcacatcgaggaagcgtaaaaaaagccagctactcctct	300
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COI-29:	301	tctcatgattgcttaacaaatgagagggagcaggctgcagctgattccataaccctctcaagct	360
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COI-29:	361	gctcgtgctggtggccacacttcctctcccgaggagggaggttcacaaattacacatcaaggatg	420
hRAIN:	421	ataaaaggaaataaagaanaatgctacttcgggggggtattatagatgatgatctgctcgtg	480
COI-29:	421	ataaaaggaaataaagaanaatgctacttcgggggggtattatagatgatgatctgctcgtg	480
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COI-29:	481	gtaccattcttgaggaatacactgagaggaagggctccaaagataagaaaggctcatgca	540
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COI-29:	541	atgaatgaataccacagactcctgtgcagctactgggtcagcgctcctggagatattgtcgg	600
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COI-29:	601	gggggaacatgggagagggcgaacacacactgctgagctgttatgactattctattctgattc	660
hRAIN:	661	gcctgatcaatgaaagaaagtaggaacttgatccttcacagctccacagctggagaaaatgga	720
COI-29:	661	gcctgatcaatgaaagaaagtaggaacttgatccttcacagctccacagctggagaaaatgga	720
hRAIN:	721	atctgtcaaa	729
COI-29:	721	atctgtctaaa	729

FIG. 8A-B